

General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

PURDUE UNIVERSITY

LABORATORY FOR APPLICATIONS OF REMOTE SENSING
TO AGRICULTURE, EARTH RESOURCES, AND MAN'S ENVIRONMENT
PURDUE INDUSTRIAL RESEARCH PARK
1220 POTTER DRIVE
WEST LAFAYETTE, INDIANA 47906

Skylab/EREP Monthly Report for the month of May, 1973
Project # SR397 Contract # NAS 9-13301

Activities during the month of May, 1973, were concerned with continuation of prelaunch preparation and the preparation of equipment for field support activities of the subject investigation. The delay in the launch of the Skylab permitted more thorough equipment preparation during this reporting period.

(A) Overall Status

The field spectroradiometer system that is to support the S-191 experiment has been installed in the instrument van. An electronic control module has been designed, constructed, and installed into the instrument van. This module enables format control of the spectroradiometer signals as they are recorded on magnetic tape. The supporting software system (Exosys) is undergoing debugging and should be ready for reduction of the data by late June or early July. The mobile aerial tower used to support the field spectroradiometer has been overhauled and been placed in service. The delay in the launch has forced a change in plans so that the SL-2 Mission will take place over the Monroe Reservoir test site rather than over the Ribeyre Island test site as originally planned. These delays along with the early troubles of the Spacecraft following launch eliminated any data taking activities during this monthly reporting period. However, the field support system is ready for data acquisition at the time of the first opportunity for an EREP data pass.

(B) Scientific Recommendations

No recommendations are being made during this reporting period since no data was taken by the space station as originally planned.

(C) Expected Accomplishments During the Next Reporting Period

The field spectroradiometer system will be deployed on the Monroe Reservoir test site in the event that an EREP data pass is scheduled during June, 1973. Arrangements will be complete with the Monroe Reservoir authorities in order to establish appropriate field test sites. Arrangements with supporting aircraft will be made to permit close time proximity of the aircraft flights to that of the EREP overpass. The Exosys Software System should be ready for data reduction by the end of the next reporting period.

(D) Results

No significant results are reported since the space station did not take any data during this reporting period.

E74-10300) {OBTAIN DATA OVER FOUR BASIC
TEST AREAS WITHIN THE WABASH VALLEY
RIVER BASIN WITH EMPHASIS ON CROP
IDENTIFICATION, ACREAGE MENSURATION AND
(Purdue Univ.) 2 p HC \$3.00 CSCL 08F

N74-17089

Unclas

G3/13 00300

Monthly Report
May, 1973

(E) Travel Summary and Plans

Travel to both the Ribeyre Island and Monroe Reservoir test sites was made during the month of May. It was necessary to visit both test sites since the delay in the launch and subsequent troubles made it difficult to predict over which test site the data would be taken during the early part of the month. Setup points in the tsst site areas were analyzed during the travel periods for accessibility and technical quality. Photographic documentations of each possible setup point was completed.

Report submitted by:
Dr. LeRoy F. Silva
Laboratory for Applications of
Remote Sensing
Purdue University
1220 Potter Drive
West Lafayette, Indiana 47906

Contract Monitor
Roger Hicks
Mail Code TF 6
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas 77058

LFS:sf